

Request for City Council for the City of Ingleside, Texas

Subject: REQUEST FOR SAN PATRICIO COUNTY RADIO TOWER

Submitted By: John Davis, Chief Building Official

Date Submitted To City Manager: July 14, 2014

For The Agenda Of: July 22, 2014

Attachments: Email request, location map, plat survey, 3 pg. plan specification for tower

Approved By City Manager: _____

Summary Statement: Radio tower will be utilized by Ingleside PD, Fire and EMS, Aransas Pass, Gregory, San Patricio County, DPS, Parks and Wildlife and area agencies traveling through the area. The seven acres will be fenced. The property itself is large enough that if the tower were to fail and fall, it would be contained within the property lines off Oxy and San Patricio County and not onto the highway or public areas.

Recommended Action:

Angie West

From: John Davis
Sent: Thursday, July 10, 2014 8:33 AM
To: Angie West
Subject: FW: San Patricio County Radio Tower specs
Attachments: Oxy Twr Site.jpg; RevisedTowerSitePlat.pdf; San Patricio Co TX- 380' x 42 GT.pdf

Please print

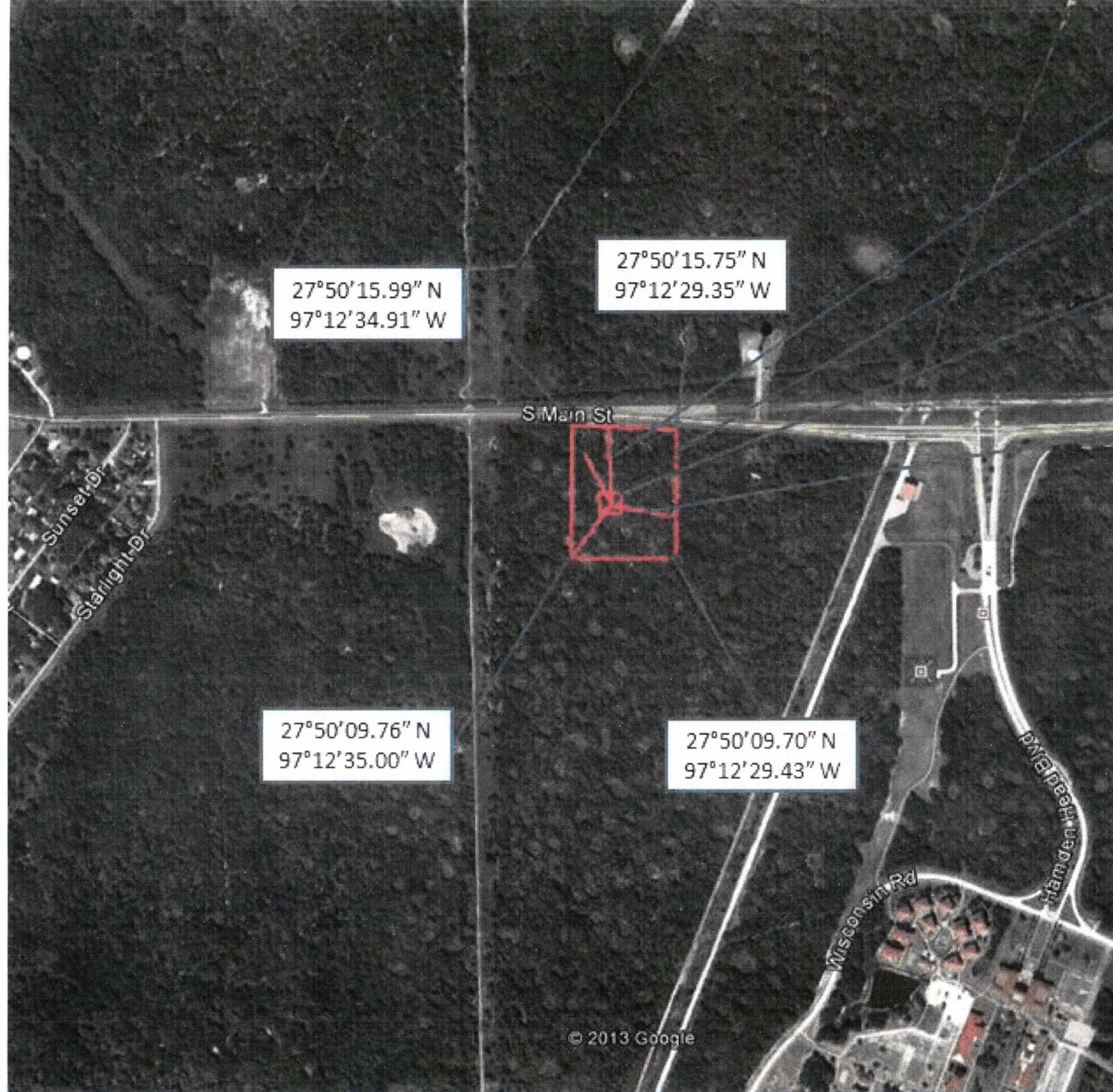
John Davis, CBO
Chief Building Official
City of Ingleside
PO Drawer 400
2665 San Angelo
Ingleside, TX 78362
PH: 361-776-2517
FAX: 361-776-1027
jdavis@inglesidetx.gov

From: Oscar Rivera [<mailto:oscar.rivera@co.san-patricio.tx.us>]
Sent: Tuesday, July 08, 2014 9:12 AM
To: John Davis
Subject: FW: San Patricio County Radio Tower specs

From: Oscar Rivera [<mailto:oscar.rivera@co.san-patricio.tx.us>]
Sent: Monday, July 07, 2014 4:35 PM
To: 'jdavis@ingleside.tx.gov'
Cc: 'Charles Moody'; 'Aadrian 603'
Subject: San Patricio County Radio Tower specs

The property is located on Oxy Chem property off FM1069 defined as seven (7) acres within the brush undeveloped area. We plan to erect a 380' guyed galvanized tower with an 8'x15' building on it. The building will have electrical power plus a T1 Verizon telephone line that links the radio towers in Sinton, Mathis and Corpus Christi, together. The building will also have a 250 gallon propane tank to run a generator during power failure. The equipment currently on the water tower in Ingleside by T361 will be removed and placed in the new building. We've offered Ingleside Fire Department the use of the radio tower for their VHF paging radio. This radio system is utilized by Ingleside PD, Fire and EMS, Aransas Pass, Gregory, San Patricio County, DPS, Parks and Wildlife and area agencies traveling through the area. The area is defined as partial wet lands and has light brush on it. We have to fence the seven acres per the contract with Oxy. The brush will remain in place with the exception of the property lines, the guide wire runs, and the actual location of the building. The building will be constructed with cinderblock and concrete. The property itself is large enough that if the tower were to fail and fall, it would be contained within the property lines off Oxy and San Patricio County and not onto the highway or public areas. Please let me know if we need to provide any additional information.

Oscar Rivera, Chief Deputy
San Patricio County Sheriff's Office
300 N. Rachal St
Sinton, Texas 78387



400' Distance
to Road

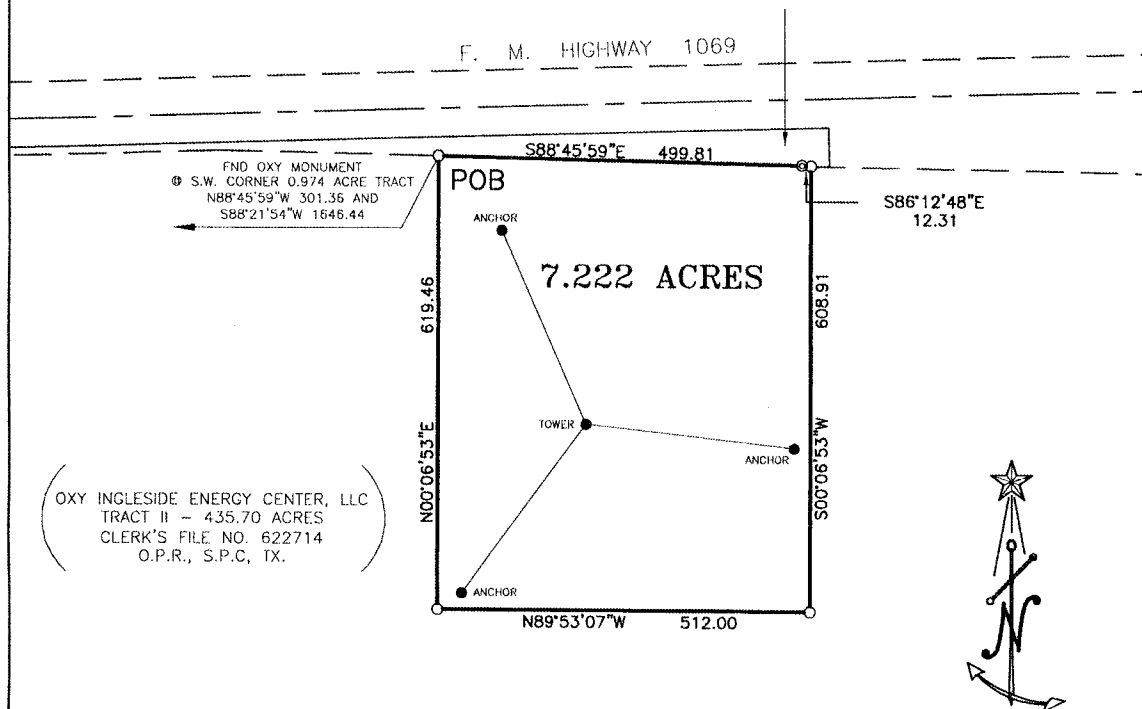
7.1 Acre
Area

100' X 100'
Area for Tower
& Structures

288'
Guide
Wires

L. VON ZACARIAS
A - 271

STATE OF TEXAS
TRACT 1 - 0.974 ACRES
CLERK'S FILE NO. 384052
R.P.R., S.P.C., TX.



⊙ - indicates found 5/8" iron rod unless otherwise noted.

○ - indicates set 5/8" iron rod with surveyor's cap stamped "RPLS 1907" unless otherwise noted.

Bearings are GPS, Texas State Plan Coordinate System of NAD 1983, South Zone.

The FEMA Flood Maps show that the property described herein is located in Flood Zone C. Community Panel No. 485506 0529C. Map Revised: March 18, 1985.

There may be existing pipelines not shown on this map. Use the Texas One Call System to locate existing pipelines before performing any excavation on this property.

Tower and guy anchor locations were changed to avoid wetlands. The new locations were staked on July 9th, 2013

PLAT SHOWING SURVEY OF
A 7.222 ACRE TRACT
OUT OF
L. VON ZACARIAS SURVEY, ABSTRACT 271
SAN PATRICIO COUNTY, TEXAS
SCALE 1" = 200 FEET

I, Gregory A. Hauger, Registered Professional Land Surveyor of Texas, do hereby state that the above plat represents an actual survey made on the ground, under my supervision, to the best of my knowledge and ability, this the 24th day of July, 2013.

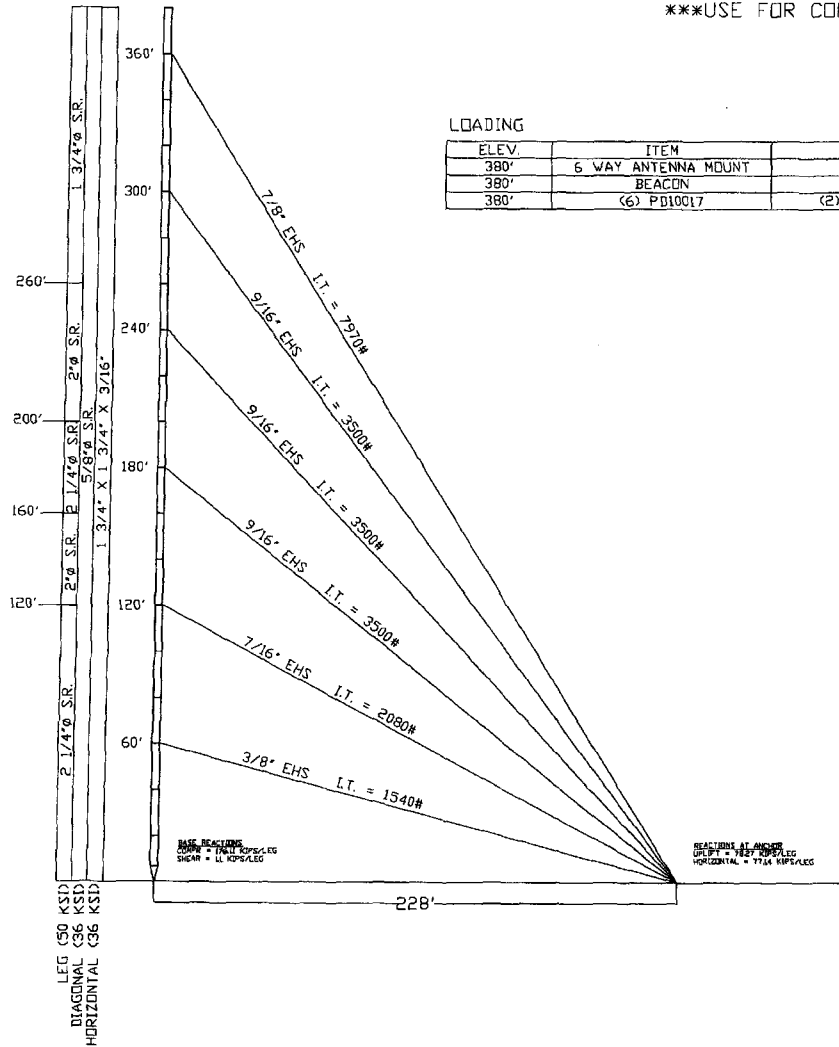
King & Petrus, Inc.
P. O. Box 606
Sinton, Texas 78387
Phone 361-364-2622
Fax 361-364-2641
C:\GAH\22300\22326B



Registered Professional Land Surveyor
Texas Registration No. 5639

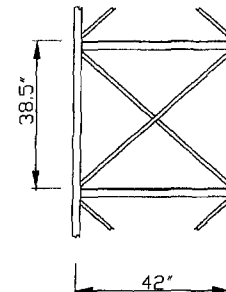


USE FOR CONSTRUCTION



LOADING

ELEV.	ITEM	LINE
380'	6 WAY ANTENNA MOUNT	
380'	BEACON	CONDUIT
380'	(6) PD100L7	(2) 1 5/8\" HELLAX, (4) 7/8\" HELLAX



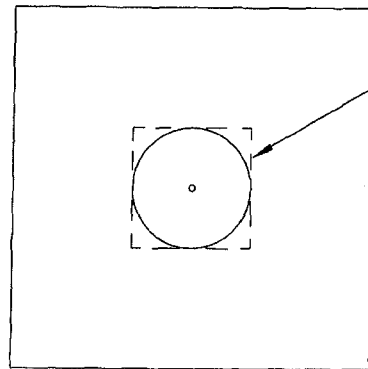
SITE	SAN PATRICIO CO. TX
HEIGHT	380' x 42'
EIA STANDARD	222-G
WIND	135 MPH
ICE	NONE
CONCRETE CATEGORY	C
SEISMIC CATEGORY	1
SEISMIC ZONE	2
REVISION	2

- NOTES
1. DESIGN MEETS THE REQUIREMENTS OF EIA DESIGN STANDARD LISTED ABOVE.
 2. LEG MATERIAL SHALL BE MINIMUM 50 KSI YIELD. DIAGONAL, HORIZONTAL AND GUSSET MATERIAL SHALL BE MINIMUM OF 36 KSI YIELD.
 3. ALL STEEL SHALL BE HOT DIPPED GALVANIZED PER ASTM A 123.
 4. ALL CONNECTIONS SHALL BE DESIGNED TO HOLD THE CAPACITY OF THE CONNECTING MEMBERS.
 5. ALL CONNECTIONS (WELDED AND BOLTED) SHALL CONFORM TO AISC "MANUAL OF STEEL CONSTRUCTION" LATEST EDITION.
 6. IF ANY ITEM OF THE COMPLETED STRUCTURE VARIES FROM WHAT IS SHOWN ON THIS DRAWING THE CERTIFICATION BY TOWERSWIFT ENGINEERING SHALL BE CONSIDERED INVALID.



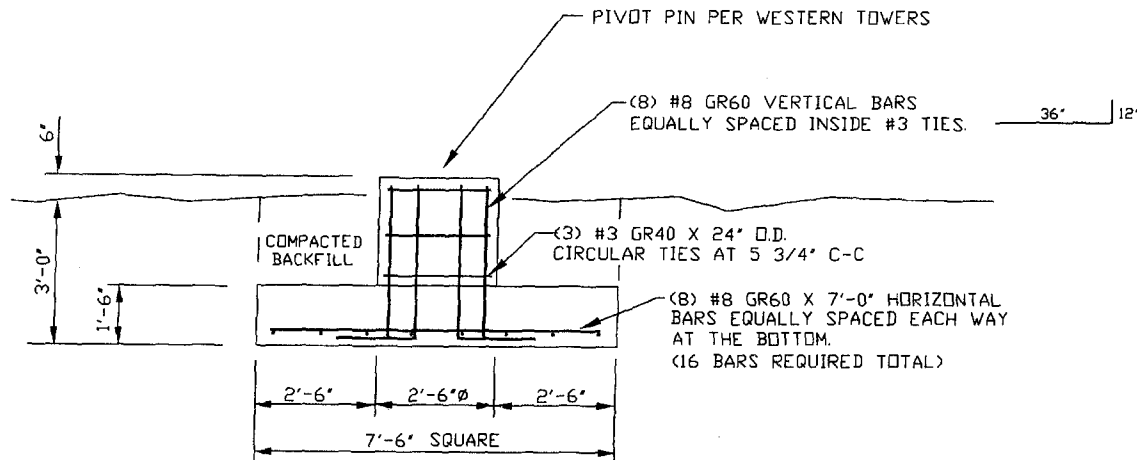
8-6-08

<p>WESTERN TOWERS 330 W 26th • San Antonio, Texas 78203 (214) 775-2873</p>	
PROJECT NO.	
DATA SHEET PROPOSED TOWER SAN PATRICIO COUNTY, TX	
DWG NO.	DATE
0001-2	08-04-08
PAGE 1 OF 1	



SQUARE PIER OPTIONAL

PLAN VIEW



ELEVATION VIEW

NOTES:

1. CONCRETE SHALL OBTAIN MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
2. REBAR SHALL CONFORM TO THE ASTM A615 GRADE SPECIFIED.
3. ALL REBAR SHALL HAVE A 3" CONCRETE COVER.
4. BASE OF EXCAVATION SHALL BE CLEAN AND FREE OF LOOSE SOIL AND DEBRIS
5. 3.5 C.Y. CONCRETE REQUIRED THIS TOWER BASE.
6. TOWER BASE IS DESIGNED PER THE SOILS REPORT BY ROCK ETL, JOB NO. G207183.

TOWER BASE REACTIONS (REV G):

AXIAL = 176.1 KIPS
SHEAR = 1.1 KIPS



380FT G.T. AT SAN PATRICIO CO., TX

WESTERN TOWERS
320 W. 26TH STREET
SAN ANGELO, TX

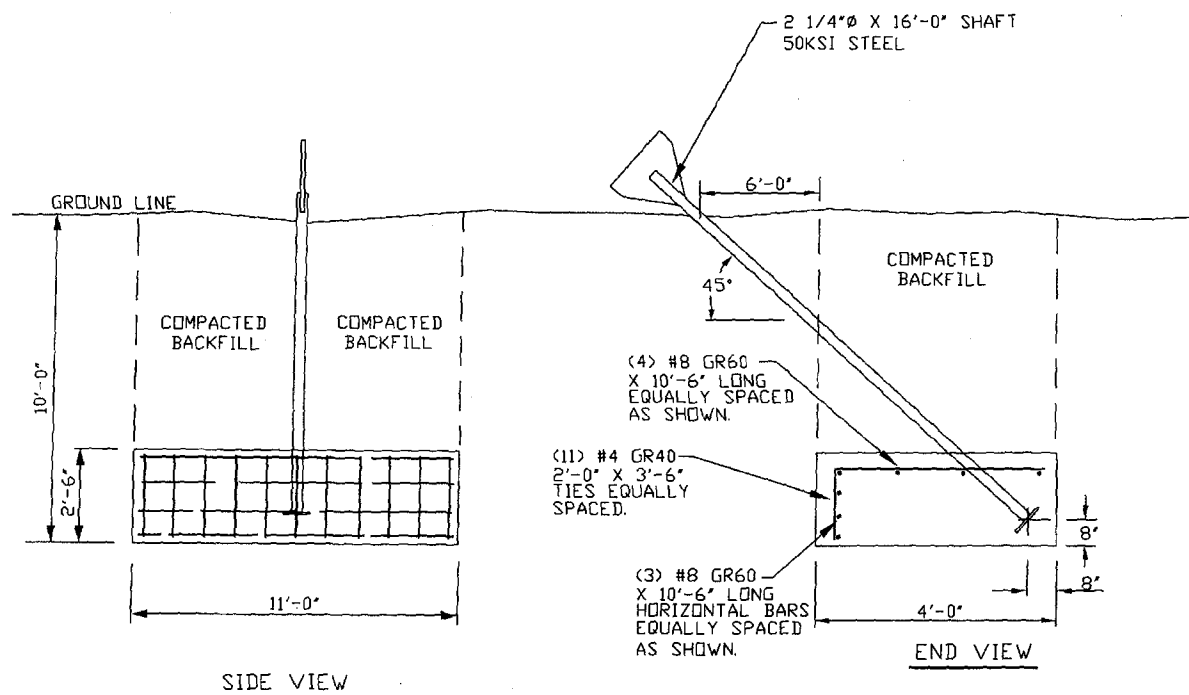
TOWERKRAFT PROJECT NO. 6797

TITLE: CONCRETE TOWER BASE

TOWERKRAFT ENGINEERING 213 EAST 3RD STREET ALLIANCE, NE 69301 (308) 762-5002
BY: AAK
DATE: 8-06-08

NOT TO SCALE

DWG. NO. 6797-B PAGE 1 OF 1



ANCHOR REACTIONS (REV. G):

UPLIFT = 78.3 KIPS
HORIZ. = 77.1 KIPS
SHAFT TENSION = 109.9 KIPS



NO SCALE

NOTES:

1. CONCRETE SHALL OBTAIN MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
2. REBAR SHALL CONFORM TO THE ASTM A615 GRADE SPECIFIED.
3. ALL REBAR SHALL HAVE A 3" CONCRETE COVER.
4. BASE OF EXCAVATION SHALL BE CLEAN AND FREE OF LOOSE SOIL AND DEBRIS
5. 4.1 C.Y. CONCRETE REQUIRED THIS GUY ANCHOR
6. THIS ANCHOR HAS BEEN DESIGN PER THE GEOTECHNICAL REPORT BY ROCK ATL, JOB NO. G207183.

SITE: SAN PATRICIO CO., TX
GUY RADIUS = 228'

WESTERN TOWERS

320 W. 26 ST
SAN ANGELO, TX 76903

TOWERKRAFT PROJECT NO. 6797

TITLE: GUY ANCHOR

TOWERKRAFT ENGINEERING
216 EAST 3RD STREET
ALLIANCE, NE 69301
(308) 762-5002

BY: AAK

DATE: 8-06-08

DWG. NO. 6767-A

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